

Supplementary material for:

The Genomic Diversification of the *Acinetobacter* Genus: Origins, Mechanisms, and Consequences.

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Table S1. Strains and genomes used in this study

Species (validly or provisionally named)	NCBI genome accession no.	Sequenced strain (derived from)	ANI *	NCBI Bioproject no.	Total length of contigs (nt)	No. of contigs	No. of scaffolds	No. of proteins	Locality and year of strain isolation **	Specimen	Selected references (NCBI PMID no.)
<i>A. baumannii</i>	APRG00000000.1	CIP 70.34 ^T	T	PRJNA183249	4026363	32	23	3766	Before 1949	Urine	IJSB (1986) 36:228–40
<i>A. baumannii</i>	APOF00000000.1	NIPH 24	97.84	PRJNA183334	3889200	22	12	3608	Praha, CZ, 1991	Urine (human)	20383326
<i>A. baumannii</i>	APOQ00000000.1	NIPH 1669 (< Brisse 12A133)	97.66	PRJNA183321	3861243	21	6	3577	Utrecht, NL, 1997	Blood (human)	21320596
<i>A. baumannii</i>	APOR00000000.1	NIPH 1362	97.83	PRJNA183320	4086366	32	8	3863	Praha, CZ, 2000	Tracheal aspirate (human)	14729937, 20383326
<i>A. baumannii</i>	APOU00000000.1	NIPH 146	97.49	PRJNA183317	3933401	27	1	3641	Praha, CZ, 1993	Wound (human)	10334596, 21320596
<i>A. baumannii</i>	APOV00000000.1	NIPH 615	97.63	PRJNA183316	3941555	39	12	3740	Praha, CZ, 1994	Tracheal secretion (human)	14729937, 21320596
<i>A. baumannii</i>	APOW00000000.1	NIPH 2061	97.83	PRJNA183315	3970958	20	12	3737	Příbram, CZ, 2003	I. V. cannula (human)	24277043
<i>A. baumannii</i>	APOX00000000.1	NIPH 1734	97.81	PRJNA183314	3914908	28	11	3675	Mladá Boleslav, CZ, 2001	Sputum (human)	14729937
<i>A. baumannii</i>	APPLO00000000.1	NIPH 190	97.48	PRJNA183300	3899398	48	11	3782	Praha, CZ, 1993	Tracheal secretion (human)	14729937, 21320596
<i>A. baumannii</i>	APPM00000000.1	NIPH 60	97.50	PRJNA183299	3946627	65	33	3763	Praha, CZ, 1992	Sputum (human)	14729937, 21320596
<i>A. baumannii</i>	APQV00000000.1	NIPH 201	97.61	PRJNA183260	4110685	23	9	3840	Liberec, CZ, 1992	Nasal swab (human)	14729937, 21320596
<i>A. baumannii</i>	APQW00000000.1	NIPH 527 (< RUH 875)	97.61	PRJNA183259	4152121	31	18	3939	Dordrecht, NL, 1984	Urine (human)	8735109, 21320596
<i>A. baumannii</i>	APQX00000000.1	NIPH 335	97.45	PRJNA183258	3923854	29	15	3744	Tábor, CZ, 1994	Sputum (human)	14729937, 21320596
<i>A. baumannii</i>	APQY00000000.1	NIPH 329	97.53	PRJNA183257	3994296	14	8	3721	Tábor, CZ, 1994	Tracheal secretion (human)	14729937, 21320596
<i>A. baumannii</i>	APQZ00000000.1	NIPH 601	97.42	PRJNA183256	4021265	19	10	3736	Praha, CZ, 1993	Urine (human)	14729937, 21320596
<i>A. baumannii</i>	APRA00000000.1	NIPH 67	97.69	PRJNA183255	4047599	11	5	3658	Praha, CZ, 1992	Tracheal secretion (human)	14729937, 21320596
<i>A. baumannii</i>	APRB00000000.1	NIPH 528 (< RUH 134)	97.87	PRJNA183254	3869750	12	7	3562	Rotterdam, NL, 1982	Urine (human)	8735109, 21320596
<i>A. baumannii</i>	APRC00000000.1	NIPH 70	97.70	PRJNA183253	3926921	57	15	3810	Praha, CZ, 1992	Tracheal secretion (human)	14729937, 21320596
<i>A. baumannii</i>	APRD00000000.1	NIPH 290	97.68	PRJNA183252	4022026	28	14	3846	Příbram, CZ, 1994	Urine (human)	14729937
<i>A. baumannii</i>	APRE00000000.1	NIPH 80	97.76	PRJNA183251	3957396	89	9	3895	Praha, CZ, 1993	I. V. cannula (human)	14729937, 21320596
<i>A. baumannii</i>	APRF00000000.1	ANC 4097	97.59	PRJNA183250	4235983	31	19	4057	Ústí nad Labem, CZ, 2011	Tracheal aspirate (human)	22366189
<i>A. baumannii</i>	ATGJ00000000.1	NIPH 410	97.67	PRJNA183248	4031919	26	15	3933	Brno, CZ, 1996	Cannula (human)	14729937, 21320596
<i>A. baumannii</i>	JNOT00000000.1	BM4587	97.72	PRJNA251418	3880207	74	NA	3620	Paris, FR, 2009	Human clinical sample	19884373
<i>A. baumannii</i>	JNOU00000000.1	MRSN 3405	97.64	PRJNA251551	4029187	154	NA	3907	Washington, USA, 2011	Wound (human)	23812239
<i>A. baylyi</i>	APPT00000000.1	CIP 107474 ^T	T	PRJNA183290	3595248	18	10	3271	Bendigo, Victoria, AU, 1995	Activated sludge plant	12892111
<i>A. beijerinckii</i>	APQL00000000.1	CIP 110307 ^T	T	PRJNA183271	3556901	13	5	3321	Malmö, SE, 1980	Wound (human)	2751895, 19126734
<i>A. bejerinckii</i>	APQK00000000.1	ANC 3835	96.48	PRJNA183272	3535053	19	6	3302	Rampuše, CZ, 2009	Water and sludge	24277043
<i>A. bereziniae</i>	APQG00000000.1	CIP 70.12 ^T	T	PRJNA183276	4947312	52	3	4650	Before 1960	Wound (human)	IJSB (1986) 36:228–40, 19661501
<i>A. bouvetii</i>	APQD00000000.1	CIP 107468 ^T	T	PRJNA183279	3369793	24	6	3112	Bendigo, Victoria, AU, 1991	Activated sludge plant	12892111
<i>A. brisouli</i>	APPR00000000.1	ANC 4119 ^T (< 5YN5-8 ^T)	T	PRJNA183292	3108690	20	8	2927	Yongneup wetland, KR	Peat	20221727
<i>A. brisouli</i>	AYEU00000000.1	CIP 110357 ^T (< 5YN5-8 ^T)	100	PRJNA217359	3145929	16	7	2938	Yongneup wetland, KR	Peat	20221727
<i>A. brisouli-like</i>	APQY00000000.1	ANC 3789	93.64 (> ANC 4119 ^T)	PRJNA183313	3238278	25	11	3038	Velečín, CZ, 2009	Pond mud	24277043
<i>A. calcoaceticus</i>	APQI00000000.1	CIP 81.8 ^T	T	PRJNA183274	3926967	12	7	3654	Deft, NL, 1900–1910	Soil	IJSB (1986) 36:228–40, 21320596
<i>A. calcoaceticus</i>	APQE00000000.1	NIPH 3	96.86	PRJNA183335	3922088	11	3	3644	Praha, CZ, 1991	Burn	10334596, 21320596
<i>A. calcoaceticus</i>	APQH00000000.1	ANC 3680	96.11	PRJNA183275	4071058	8	4	3785	Rampuše, CZ, 2008 (Jun)	Soil (beech forest)	21320596
<i>A. calcoaceticus-like</i>	APPF00000000.1	NIPH 817 (< Gemer-Smidt 10095)	91.10 (> CIP 81.8 ^T)	PRJNA183306	4087965	37	16	3837	DK, 1990–1991	Abscess (human)	8286091, 21320596
<i>A. calcoaceticus-like</i>	APQJ00000000.1	ANC 3811	92.10 (> CIP 81.8 ^T)	PRJNA183273	3824391	14	2	3534	CZ, 2009 (Aug)	Water	24277043
<i>A. calcoaceticus-like</i>	APSC00000000.1	NIPH 542 (< Gemer-Smidt 10169)	91.57 (> CIP 81.8 ^T)	PRJNA183224	4174669	13	8	3831	DK, 1990–1991	Sputum (human)	8286091, 21320596
<i>A. germeri</i>	APPN00000000.1	CIP 107447 ^T	T	PRJNA183298	4520036	84	42	4254	Bendigo, Victoria, AU, 1991	Activated sludge plant	12892111
<i>A. guillouiae</i>	APSO00000000.1	CIP 63.46 ^T	T	PRJNA183319	4863018	39	16	4613	Before 1951	Sewage	IJSB (1986) 36:228–40, 19661501
<i>A. guillouiae</i>	APPJ00000000.1	NIPH 991	96.53	PRJNA183302	4878616	17	4	4513	Sedlčany, CZ, 1998	Ear swab (human)	19661501
<i>A. gyllenbergsii</i>	ATGG00000000.1	CIP 110306 ^T	T	PRJNA183295	4305849	65	65	4151	Leiden, NL, 1978	Urine (human)	2799067, 19126734
<i>A. gyllenbergsii</i>	AYEQ00000000.1	NIPH 230	98.53	PRJNA183325	4431794	194	13	4385	Praha, CZ, 1994	Vagina (human)	19126734
<i>A. haemolyticus</i>	APQQ00000000.1	CIP 64.3 ^T	T	PRJNA183265	3486821	32	15	3322	Unknown	Sputum (human)	IJSB (1986) 36:228–40
<i>A. haemolyticus</i>	APQR00000000.1	NIPH 261	97.63	PRJNA183264	3517917	17	7	3361	Č. Budějovice, CZ, 1993	Tissue (human)	11060048
<i>A. indicus</i>	ATGH00000000.1	ANC 4215 ^T (< A648 ^T)	T	PRJNA183294	3171009	33	11	2982	Lucknow, IN, before 2010	Soil	22247213
<i>A. indicus</i>	AYET00000000.1	CIP 110367 ^T (< A648 ^T)	100	PRJNA217357	3210203	21	17	2998	Lucknow, IN, before 2010	Soil	22247213
<i>A. indicus</i>	APRK00000000.1	CIP 53.82	97.55	PRJNA183243	3120246	22	11	2918	Unknown	Unknown	This study
<i>A. johnsonii</i>	APON00000000.1	CIP 64.6 ^T	T	PRJNA183324	3582699	48	11	3487	Unknown	Duodenum (human)	IJSB (1986) 36:228–40
<i>A. johnsonii</i>	APPZ00000000.1	ANC 3681	95.67	PRJNA183284	3536998	11	8	3318	Rampuše, CZ, 2008	Water	24277043
<i>A. junii</i>	APPX00000000.1	CIP 64.5 ^T	T	PRJNA183286	3330618	41	7	3158	Unknown	Urine (human)	IJSB (1986) 36:228–40
<i>A. junii</i>	APPW00000000.1	NIPH 182	97.39	PRJNA183287	3306847	14	9	3093	Praha, CZ, 1993	Phlegmon pus (human)	11060048
<i>A. grimontii</i> (= <i>A. junii</i>)	APPS00000000.1	CIP 107470 ^T	97.18	PRJNA183291	3705864	81	25	3603	Bendigo, Victoria, AU, 1991	Activated sludge plant	12892111
<i>A. lwoffii</i>	AYHO00000000.1	NIPH 512 ^T (< NCTC 5866 ^T)	T	PRJNA219244	3382003	16	12	3237	Unknown	Unknown	This study
<i>A. lwoffii</i>	APOG00000000.1	CIP a162	99.94	PRJNA183333	3356935	12	7	3204	FR, ~1952	Conjunctivitis	IJSB (1986) 36:228–40
<i>A. lwoffii</i>	APOT00000000.1	NIPH 715	96.03	PRJNA183318	3400693	76	26	3314	Příbram, CZ, 1997	Pus (human)	11060048
<i>A. lwoffii</i>	APQT00000000.1	CIP 70.31	95.67	PRJNA183262	3546109	79	12	3503	Unknown	Gangrenous lesion (human)	IJSB (1986) 36:228–40
<i>A. lwoffii</i>	APQU00000000.1	NIPH 478	95.62	PRJNA183261	3276129	27	9	3088	Horní Planá, CZ, 1997	Ear swab (human)	11060048
<i>A. lwoffii</i>	APRU00000000.1	CIP 51.11	95.59	PRJNA183232	3133520	11	5	2899	FR, 1951	Pleural pus (human)	24277043
<i>A. lwoffii</i>	APRV00000000.1	CIP 102136	95.75	PRJNA183231	3559292	51	20	3395	Paris, FR, 1986	Sternum (human)	24277043
<i>A. lwoffii</i>	APRX00000000.1	CIP 101966	95.79	PRJNA183229	3485835	50	18	3424	Nevers, FR, 1985	Sputum (human)	24277043
<i>A. lwoffii</i>	APRY00000000.1	CIP 64.7	95.70	PRJNA183228	3608282	59	19	3550	DE, ~1964	Urine	IJSB (1986) 36:228–40
<i>A. nectaris</i>	AYER00000000.1	CIP 110549 ^T	T	PRJNA217360	2668173	34	29	2549	Dofiana's Natural Park, ES	Floral nectar	22904213
<i>A. nosocomialis</i>	APOP00000000.1	NIPH 2119 ^T	T	PRJNA183322	3880908	19	1	3591	Rotterdam, NL, 1987	Sputum (human)	21320596
<i>A. nosocomialis</i>	APP00000000.1	NIPH 386	97.71	PRJNA183296	4034803	15	10	3842	Příbram, CZ, 1996	Sputum (human)	21320596
<i>A. parvus</i>	APOM00000000.1	CIP 108168 ^T	T	PRJNA183236	2869892	64	9	2789	Příbram, CZ, 1996 (Jan)	Ear (human)	13130049
<i>A. parvus</i>	APOL00000000.1	NIPH 1103	95.83	PRJNA183327	2968144	48	12	2882	Leiden, NL, 1995	Skin (human)	13130049
<i>A. parvus</i>	APOZ00000000.1	CIP 102159	98.19	PRJNA183312	2875069	83	2	2794	FR, 1986	Blood (human)	24277043

Table S1. Continued

Species (validly or provisionally named)	NCBI genome accession no.	Sequenced strain (derived from)	ANI *	NCBI Bioproject no.	Total length of contigs (nt)	No. of contigs	No. of scaffolds	No. of proteins	Locality and year of strain isolation **	Specimen	Selected references (NCBI PMID no.)
<i>A. parvus</i>	APPAA00000000.1	CIP 102129	96.34	PRJNA183311	2945942	42	11	2822	Rennes, FR, 1986	Sputum (human)	24277043
<i>A. parvus</i>	APPB00000000.1	CIP 102529	98.47	PRJNA183310	2988319	65	13	2936	Paris, FR, 1986	Blood (human)	24277043
<i>A. parvus</i>	APPD00000000.1	CIP 102082	98.17	PRJNA183308	2937770	74	16	2870	Frejus, FR, 1982	Redon (human)	24277043
<i>A. parvus</i>	APPG00000000.1	CIP 102637	96.53	PRJNA183305	2748158	41	5	2648	FR, 1986	Blood (human)	24277043
<i>A. parvus</i>	APSE00000000.1	CIP 102143	98.24	PRJNA183222	2964850	96	26	2922	Grenoble, FR, 1986	Blood (human)	24277043
<i>A. pittii</i>	APQP00000000.1	CIP 70.29 [†]	T	PRJNA183266	3796866	33	13	3502	Before 1967	Cerebrospinal fluid (human)	IJSB (1986) 36:228-40, 21320596
<i>A. pittii</i>	APQN00000000.1	ANC 3678	96.87	PRJNA183268	3950554	25	10	3699	Rampuše, CZ, 2008	Water (pond)	21320596
<i>A. pittii-like</i>	APQM00000000.1	ANC 4050	92.20 (< CIP 70.29 [†])	PRJNA183269	3830551	12	1	3520	USA, 1995-2002	Blood (human)	24277043
<i>A. pittii-like</i>	APQO00000000.1	ANC 4052	93.17 (< CIP 70.29 [†])	PRJNA183267	3953097	8	5	3636	USA, 1995-2002	Blood (human)	24277043
<i>A. radioresistens</i>	APQF00000000.1	CIP 103788 [†]	T	PRJNA183277	3173469	23	13	2950	AR	Cotton	IJSB (1988) 38:209-11
<i>A. radioresistens</i>	APQE00000000.1	NIPH 2130 (< Bouvet 76)	98.19	PRJNA183278	3158774	13	6	2936	Unknown	Urine (human)	IJSB (1986) 36:228-40
<i>A. ruditis</i>	ATG100000000.1	CIP 110305 [†]	T	PRJNA183283	4005144	48	11	3621	IL	Raw milk	21239566
<i>A. schindleri</i>	APPQ00000000.1	CIP 107287 [†]	T	PRJNA183293	3358322	33	18	3189	Příbram, CZ, 1998	Urine (human)	11594623
<i>A. schindleri</i>	APP100000000.1	NIPH 900	96.72	PRJNA183303	3404540	25	12	3266	Sedlčany, CZ, 1998	Conjunctiva (human)	11594623
<i>A. schindleri</i>	APRQ00000000.1	CIP 101934	97.37	PRJNA183237	3186404	41	17	2993	Rochefort, FR, 1985	Blood (human)	24277043
<i>A. soli</i>	APP100000000.1	CIP 110264 [†]	T	PRJNA183289	3350586	17	9	3092	Mt. Baekwoon, KR, 2007	Forest soil	18758729
<i>A. soli</i>	APPV00000000.1	NIPH 2899	98.75	PRJNA183288	3451111	13	3	3169	Praha, CZ, 2005	Sputum (human)	24277043
<i>A. tandoii</i>	AQFM00000000.1	CIP 107469 [†]	T	PRJNA183270	4060687	50	28	3934	Bendigo, Victoria, AU, 1991	Activated sludge plant	12892111
<i>A. tjernbergiae</i>	AYEV00000000.1	CIP 107465 [†]	T	PRJNA183328	3652434	76	NA	3490	Bendigo, Victoria, AU, 1991	Activated sludge plant	12892111
<i>A. townieri</i>	APPY00000000.1	CIP 107472 [†]	T	PRJNA183285	2898609	78	42	2792	Bendigo, Victoria, AU, 1988	Activated sludge plant	12892111
<i>A. ursingii</i>	APQA00000000.1	CIP 107286 [†]	T	PRJNA183282	3486509	29	10	3277	Praha, CZ, 1993	Blood (human)	11594623
<i>A. ursingii</i>	APQB00000000.1	NIPH 706	97.15	PRJNA183281	3492350	32	20	3334	Příbram, CZ, 1997	Blood (human)	11594623
<i>A. ursingii</i>	APQC00000000.1	ANC 3649 (< CCUG 56015)	97.47	PRJNA183280	3798198	31	5	3559	Gulhane, TR, 2006	Blood (human)	18678654
<i>A. venetianus</i>	APPO00000000.1	CIP 110063 [†]	T	PRJNA183297	3431512	21	5	3235	Tel Baruch, IL, before 1972	Seawater (beach)	9765804, 19502319
Genomic species 'Close to 13TU'	APOO00000000.1	NIPH 973 (< Germer-Smidt 10090)	R	PRJNA183233	4212819	26	16	4051	DK, 1990-1991	Ulcer (human)	8286091, 21320596
Genomic species 6	APOK00000000.1	CIP a165	R	PRJNA183239	3503964	47	8	3355	Unknown	Throat (human)	IJSB (1986) 36:228-40
Genomic species 6	APRM00000000.1	NIPH 298	96.38	PRJNA183241	3462613	14	4	3206	Příbram, CZ, 1994	Wound (human)	11060048
Genomic species 13BJ/14TU	APRT00000000.1	CIP 64.2	R	PRJNA183233	3991108	31	9	3816	DE	Conjunctivitis (human)	2799067
Genomic species 13BJ/14TU	APRZ00000000.1	NIPH 1859 (< Tjernberg 71)	94.49 (< CIP 64.2)	PRJNA183227	4197127	26	8	3942	Malmö, SE, 1980s	Conjunctivitis (human)	2751895
Genomic species 13BJ/14TU	ATGK00000000.1	NIPH 2036 (< Bouvet 1191)	94.42 (< CIP 64.2)	PRJNA183245	3884766	21	11	3608	BE, before 1990	Catheter (human)	2799067
Genomic species 14BJ	APR00000000.1	NIPH 1847 (< Bouvet 382)	R	PRJNA183236	3916558	16	4	3684	BR, before 1990	Conjunctiva (human)	2799067
Genomic species 14BJ	APSA00000000.1	ANC 3623	96.23	PRJNA183226	3941688	18	2	3617	Příbram, CZ, 2008	Conjunctiva (Agama)	24277043
Genomic species 15TU	APRS00000000.1	NIPH 2171 (< Tjernberg 151a)	R	PRJNA183235	3480196	23	7	3348	Malmö, SE, 1980s	Urine (human)	2751895
Genomic species 15TU	APPE00000000.1	NIPH 899	96.39	PRJNA183207	3770046	88	32	3731	Sedlčany, CZ, 1998	Conjunctivitis (human)	11060048
Genomic species 15BJ	AQFL00000000.1	CIP 110321 (< Bouvet 79)	92.58 (< CIP 70.18)	PRJNA183234	4275319	29	8	3980	HU, before 1990	Skin (human)	2799067
Genomic species 16	APRN00000000.1	CIP 70.18	R	PRJNA183240	4596798	50	28	4355	Unknown	Urine (human)	2799067
Genomic species 16	APPH00000000.1	CIP 56.2	95.49	PRJNA183304	4319982	24	4	4055	Roanne, FR, 1955	Liver abscess (human)	24277043
Genomic species 16	APSD00000000.1	ANC 3880	96.19	PRJNA183223	4298248	37	14	4055	Ostrava, CZ, 2010	Lungs autopsy (human)	24277043
Genomic species 17	APRO00000000.1	NIPH 1867 (< Bouvet 942)	R	PRJNA183239	3935412	9	2	3625	FR, before 1990	Leg ulceration (human)	2799067
Genomic species 17	APRL00000000.1	ANC 4105	95.20	PRJNA183242	4099634	15	5	3835	Lišov, CZ, 2011	Well water	24277043
Taxon 18	APQJ00000000.1	NIPH 236	R	PRJNA183330	3538151	32	19	3347	Příbram, CZ, 1993	Urine (human)	11060048
Taxon 18	APRJ00000000.1	ANC 3862	96.85	PRJNA183238	3780399	36	3	3657	Ostrava, CZ, 2010	Wound (human)	24277043
Taxon 18-like	APRI00000000.1	NIPH 284	93.51 (< NIPH 236)	PRJNA183246	3164170	43	22	3030	Příbram, CZ, 1994	Urine (human)	11060048
Taxon 19	APQI00000000.1	NIPH 809 (< Bouvet 631)	R	PRJNA183331	4249637	32	3	3929	USA, Before 1984	Ear (human)	2799067
Taxon 20	APRW00000000.1	NIPH 2168 (< Bouvet 1240)	R	PRJNA183230	4025291	16	3	3695	Leiden, NL	Clinical specimen (human)	2799067
Taxon 20	APPC00000000.1	NIPH 758	96.78	PRJNA183309	4047533	26	13	3757	North Rhine-Westphalia, DE, 1990s	Soil (beetroot field)	24277043
Taxon 21	APRH00000000.1	ANC 3929	R	PRJNA183247	4247806	30	10	4084	Ostrava, CZ, 2011	Urine (human)	24277043
Taxon 22	APSB00000000.1	NIPH 2100 (< Bouvet 640)	R	PRJNA183225	3875794	22	1	3581	FR, before 1990	Wound	2799067
Taxon 23	APRJ00000000.1	NIPH 713	R	PRJNA183244	3006240	19	12	2816	Příbram, CZ, 1997	Vaginal swab (human)	11060048
Taxon 23	APQS00000000.1	CIP 64.10	96.56	PRJNA183263	3206079	29	16	3019	Unknown	Unknown	IJSB (1986) 36:228-40
Taxon 26	APOH00000000.1	ANC 3994	R	PRJNA183332	3647901	28	14	3324	Lány forestland, CZ, 2011	Forest mud	24277043

Complete genomes retrieved from GenBank RefSeq

<i>A. baylyi</i>	NC_005966.1	ADP1	99.95	PRJNA61597
<i>A. baumannii</i>	NC_010410.1	AYE	97.70	PRJNA61637
<i>A. calcoaceticus-like</i>	NC_014259.1	DR1	91.47 (< CIP 81.8 [†])	PRJNA50119
<i>A. baumannii</i>	CP000521.1	ATCC 17978	97.63	PRJNA17477
<i>A. baumannii</i>	CP001172.1	AB307-0294	97.74	PRJNA30993
<i>A. baumannii</i>	CP001182.1	AB0057	97.61	PRJNA21111
<i>A. baumannii</i>	CP001921.1	1656-2	97.85	PRJNA42153
<i>A. baumannii</i>	CP001937.1	MDR-ZJ06	97.73	PRJNA28333
<i>A. baumannii</i>	CP002522.2	TCDC-AB0715	97.78	PRJNA62279
<i>A. baumannii</i>	CP003500.1	MDR-TJ	97.79	PRJNA52959
<i>A. baumannii</i>	CP003856.1	TYTH-1	97.75	PRJNA74551
<i>A. baumannii</i>	NC_010400.1	SDF	97.63	PRJNA61601
<i>A. pittii</i>	NC_016603.1	PHEA-2	96.31	PRJNA83123

* ANI was calculated using the JSpecies web program (www.imedea.uib.es/species) with default settings for ANI based on BLAST. Shown are the means of reciprocal values calculated for the given and type/reference (T/R) strain of the same or closest validly/provisionally named species.

** AR, Argentina; AU, Australia; BE, Belgium; BR, Brazil; CZ, Czech Republic; DE, Germany; DK, Denmark; ES, Spain; FR, France; HU, Hungary; IL, Israel; IN, India; KR, South Korea; NL, Netherlands; SE, Sweden; TR, Turkey.

Table S2. Analysis of essential genes. Genes present in less than 122 genomes and more than 9 and their annotations.

NC_005966							
<i>A. baumanii</i> ADP1			Number of genomes	Essential in <i>A. baumanii</i>	Essential in <i>E. coli</i> K12	Gene	PFAM annotation
Locus_tag	Start	End		ADP1	ADP1		
ACIAD1814	1820367	1821236	10	Essential	Dispensable	-	Putative MetA-pathway of phenol degradation
ACIAD2525	2482834	2484168	10	Essential	Dispensable	-	glutamate synthase family
ACIAD2481	2444463	2445347	11	Essential	Dispensable	-	CRISPR-associated protein (Cas_Csy2)
ACIAD2482	2445377	2446438	11	DBmutant	Dispensable	-	CRISPR-associated protein (Cas_Csy3)
ACIAD2483	2446441	2447052	11	Essential	Dispensable	-	CRISPR-associated protein (Cas_Csy4)
ACIAD1857	1855832	1856146	16	DBmutant	Dispensable	-	-
ACIAD2653	2608976	2609503	16	Essential	Dispensable	-	DinB superfamily
ACIAD1848	1850257	1850544	17	DBmutant	Dispensable	-	-
ACIAD1859	1857303	1857590	17	DBmutant	Dispensable	-	-
ACIAD01965	1952485	1954293	18	DBmutant	Dispensable	-	Protein phosphatase 2C
ACIAD3113	3039389	3040372	19	Essential	Dispensable	-	Formylglycine-generating sulfatase enzyme
ACIAD1516	1514422	1516914	22	Essential	Dispensable	-	TonB dependent receptor
ACIAD1521	1521563	1521979	22	Essential	Dispensable	<i>tatB</i>	-
ACIAD1957	1943990	1944568	24	Essential	Dispensable	<i>terD</i>	Bacterial stress protein
ACIAD1858	1856146	1857309	25	Essential	Dispensable	-	Replication initiation

factor							
ACIAD2143	2127544	2127819	28	Essential	Dispensable	-	
ACIAD0969	956269	957033	50	DBmutant	Dispensable	-	ABC transporter
ACIAD0919	902868	903437	52	Essential	Dispensable	-	
ACIAD2535	2492005	2493486	52	Essential	Dispensable	-	Major Facilitator Superfamily
ACIAD2108	2098247	2098609	56	Essential	Dispensable	-	DUF861
ACIAD3642	3555015	3556466	57	Essential	Dispensable	-	Aldehyde dehydrogenase
ACIAD0072	68507	69670	58	Essential	Dispensable	<i>ugd</i>	UDP-glucose/GDP-mannose dehydrogenase family
ACIAD2608	2561570	2562358	58	DBmutant	Dispensable	-	Nitroreductase family
ACIAD1539	1540516	1541445	66	Essential	Dispensable	-	LysR substrate binding domain
ACIAD1000	986067	987266	84	Essential	Dispensable	-	
ACIAD3504	3429497	3430513	85	DBmutant	Dispensable	-	DUF20
ACIAD3145	3068356	3069744	87	Essential	Dispensable	-	Pyridine nucleotide-disulphide oxidoreductase
ACIAD2511	2467153	2468073	89	Essential	Dispensable	-	LysR substrate binding domain
ACIAD1718	1725001	1725816	95	DBmutant	Dispensable	<i>pobR</i>	Bacterial transcriptional regulator
ACIAD1764	1769018	1771192	99	Essential	Dispensable	-	TonB dependent receptor
ACIAD3308	3214851	3215882	101	Essential	Dispensable	<i>lifO</i>	Proteobacterial lipase chaperone protein
ACIAD2913	2847313	2847972	104	Dispensable	Essential	<i>ribB</i>	3,4-dihydroxy-2-butanone 4-phosphate synthase
ACIAD0173	174698	175324	109	DBmutant	Dispensable	<i>rhtB</i>	LysE type

								translocator
ACIAD3600	3517967	3518611	110	DBmutant	Disposable	-	Cation efflux family	
ACIAD2227	2199881	2201227	114	DBmutant	Disposable	<i>dctA</i>	Sodium:dicarboxylate symporter family	
ACIAD3237	3153439	3153843	117	DBmutant	Disposable	-	NUDIX domain	
ACIAD1312	1312343	1312591	119	DBmutant	Disposable	-	SirA-like protein (2CS)	
ACIAD0848	835730	837760	120	Essential	Essential	<i>ligA</i>	NAD(+) -dependent DNA ligases	

Table S3. Core-genome statistics.

Taxa	Number of genomes	Number of orthologs	Alignment size (nt)	Outgroups
<i>Acinetobacter baumannii</i>	34	1590 ⁽¹⁾	1446215	none
<i>A. baumannii</i> + outgroup	36	1549 ⁽¹⁾	1416164	<i>A. nosocomialis</i> NIPH 2119, <i>A. pittii</i> -like ANC 4052
<i>Acinetobacter</i> spp.	133	950 ⁽²⁾	293061	none
<i>Acinetobacter</i> + outgroup	135	677 ⁽²⁾	212959	<i>Moraxella catarrhalis</i> RH4 (NC_014147), <i>Psychrobacter</i> sp. PRwf-1 (NC_009524)

(1) = BBH, length_ratio=1.2, >80% of similarity in AA + Gene order Conservation

(2) = BBH, length_ratio=1.2, >40% of similarity in AA

Table S4. Pan-genome statistics.

	<i>Acinetobacter</i> spp.			<i>A. baumannii</i>		
	All proteins	Non-edge proteins ⁽¹⁾	diff ⁽²⁾	All proteins	Non-edge proteins ⁽¹⁾	diff ⁽²⁾
Total proteins	470582	462622	7960	128266	126599	1667
Total families	26660	25347	1313	9513	9187	326
Strain-specific families (%)	13014 (49%)	12080 (48%)	934 (71%)	3715 (39%)	3485 (38%)	230 (70%)

(1) Proteins located at the edges of contigs and scaffolds were removed from the analysis.

(2) Difference between the whole dataset and that after removing the proteins located at the edges of contigs and scaffolds.

Table S5 – Core and pan-genomes for species of the *Acinetobacter* genus. For each species the number of genomes (#), the size of the core and pan-genome, and the size of the two relative to the average genome size in the clade (%) are indicated. The size of the pan-genomes using a percent identity of 35% between putatively orthologous proteins is also given as an indication of the changes observed in the pan-genome size when we relax the criterion of protein similarity.

Species	#	Core genome		Pan-genome		
		core	%	pan-35%	pan-60%	%
<i>A. baylyi</i>	2	3215	98%	3027	3237	100%
<i>A. bereziniae</i>	2	3497	75%	4831	5275	113%
<i>A. beijerinckii</i>	2	2870	87%	3410	3630	110%
<i>A. brisouii</i>	2	2879	98%	2724	2900	100%
<i>A. calcoaceticus</i>	4	2951	81%	4229	4677	128%
<i>A. guillouiae</i>	2	3634	80%	4741	5199	114%
<i>A. gyllenbergsii</i>	2	3412	80%	4308	4670	109%
<i>A. haemolyticus</i>	2	2646	79%	3452	3674	110%
<i>A. indicus</i>	3	2340	79%	3099	3309	112%
<i>A. johnsonii</i>	2	2601	76%	3651	3924	115%
<i>A. lwoffii</i>	9	2161	66%	5051	5557	169%
<i>A. nosocomialis</i>	2	3164	85%	3759	4034	109%
<i>A. parvus</i>	8	1810	64%	4190	4576	162%
<i>A. pittii</i>	3	2926	81%	3926	4282	120%
<i>A. radioresistens</i>	2	2522	86%	3035	3218	110%
<i>A. schindleri</i>	3	2391	76%	3665	3929	125%
<i>A. soli</i>	2	2799	89%	3149	3339	107%
<i>A. ursingii</i>	3	2458	72%	4040	4353	128%
<i>A. junii</i>	3	2293	70%	4004	4292	131%
Gen. sp. 15TU	2	2539	72%	3790	4029	114%
Taxon 23	2	2422	83%	2997	3205	110%
Gen. sp. 6	2	2556	78%	3509	3732	114%
Gen. sp. 14BJ	2	3104	85%	3708	4027	110%
Gen. sp. 13BJ/14TU	3	2782	73%	4455	4839	128%
Gen. sp. 16	3	3222	78%	4723	5210	125%
Gen. sp. 17	2	3159	85%	3795	4140	111%
Taxon 18	2	2767	79%	3794	4046	115%
<i>A. baumannii</i>	34	1590	42%	9513	10849	288%

Table S6. Data used for figures 6 and 7.

Species or genomic Species	Strain	Genome size (bp)	Competence	Number of conjugative elements	Type of conjugative elements	Number of mobilizable elements	Number of prophages	Number of integrons	Number of Transposases	CRISPR-Cas system	Number of PolV	Number of Y-Pol
<i>A. brisouii</i>	CIP 110357	3145594	YES	0	0	1	3	0	3	No	0	1
<i>A. brisouii</i>	ANC 4119	3108690	YES	0	0	1	2	0	6	No	0	1
<i>A. brisouii-like</i>	ANC 3789	3238278	YES	0	0	2	3	0	6	Yes	0	1
<i>A. nectaris</i>	CIP 110549	2668879	YES	0	0	4	2	0	2	No	0	1
<i>A. baumannii</i>	NIPH 527	4152121	YES	1	2	0	4	1	16	Yes	1	3
<i>A. baumannii</i>	NIPH 290	4022026	YES	0	0	0	4	1	11	Yes	1	3
<i>A. baumannii</i>	AB307	3760981	YES	0	0	0	2	0	0	Yes	0	2
<i>A. baumannii</i>	AYE	4048735	YES	0	0	1	4	2	37	Yes	0	2
<i>A. baumannii</i>	ANC 4097	4235983	YES	1	1	1	3	1	26	Yes	1	4
<i>A. baumannii</i>	AB0057	4050513	No	0	0	0	3	1	18	Yes	1	3
<i>A. baumannii</i>	MRSN 3405	4029187	YES	1	1	2	3	0	17	Yes	0	3
<i>A. baumannii</i>	NIPH 1669	3861243	YES	0	0	1	3	1	1	No	0	3
<i>A. baumannii</i>	BM4587	3880207	YES	0	0	0	1	0	2	No	1	3
<i>A. baumannii</i>	NIPH 335	3923853	YES	0	0	1	4	0	38	No	2	4
<i>A. baumannii</i>	NIPH 67	4047599	YES	0	0	0	1	0	1	No	0	2
<i>A. baumannii</i>	SDF	3477896	No	0	0	1	4	0	371	No	0	2
<i>A. baumannii</i>	CIP 70.34	4026363	YES	0	0	2	3	0	5	Yes	1	3
<i>A. baumannii</i>	NIPH 615	3941555	YES	0	0	0	4	0	90	Yes	0	3
<i>A. baumannii</i>	NIPH 146	3933401	YES	0	0	0	2	0	2	Yes	1	3
<i>A. baumannii</i>	NIPH 190	3899398	YES	0	0	0	4	0	117	Yes	0	3
<i>A. baumannii</i>	NIPH 60	3946627	YES	0	0	1	3	0	81	No	0	3
<i>A. baumannii</i>	NIPH 201	4110685	YES	0	0	0	4	0	7	Yes	0	2
<i>A. baumannii</i>	NIPH 601	4021265	YES	0	0	1	3	0	37	No	0	2
<i>A. baumannii</i>	NIPH 80	3957396	No	0	0	0	4	0	116	No	0	2
<i>A. baumannii</i>	NIPH 410	4031919	YES	0	0	3	3	0	132	No	0	3
<i>A. baumannii</i>	NIPH 70	3926921	YES	1	1	1	2	0	50	No	1	4
<i>A. baumannii</i>	ATCC17978	4001456	YES	0	0	0	2	0	9	No	2	5
<i>A. baumannii</i>	MDR-TJ	4042440	YES	1	1	0	3	2	29	No	0	3
<i>A. baumannii</i>	MDR-ZJ06	4011434	YES	0	0	0	4	2	28	No	0	2
<i>A. baumannii</i>	NIPH 2061	3970958	YES	1	1	0	1	0	16	No	1	4
<i>A. baumannii</i>	TCDC-AB0715	4218013	YES	1	1	0	4	2	11	No	1	4
<i>A. baumannii</i>	TYTH-1	3957364	YES	0	0	0	2	1	18	No	0	1
<i>A. baumannii</i>	NIPH 528	3869750	YES	0	0	0	3	1	9	No	0	2

<i>A. baumannii</i>	NIPH 24	3889200	YES	0	0	0	3	1	10	No	0	3
<i>A. baumannii</i>	1656-2	4023106	YES	1	1	0	5	1	56	No	0	3
<i>A. baumannii</i>	NIPH 1362	4086366	YES	0	0	0	4	0	6	No	0	2
<i>A. baumannii</i>	NIPH 1734	3914908	YES	1	1	0	0	0	6	No	0	3
<i>A. baumannii</i>	NIPH 329	3994296	YES	0	0	0	4	0	1	No	0	2
<i>A. nosocomialis</i>	NIPH 386	4034803	YES	0	0	2	1	0	51	No	1	3
<i>A. nosocomialis</i>	NIPH 2119	3880908	YES	0	0	0	1	0	5	No	1	3
<i>A. close-to-13TU</i>	NIPH 973	4212819	YES	0	0	2	2	0	85	No	0	2
<i>A. pittii-like</i>	ANC 4052	3953097	YES	0	0	0	1	0	0	No	1	4
<i>A. pittii-like</i>	ANC 4050	3830551	YES	0	0	0	1	0	0	No	1	3
<i>A. pittii</i>	CIP 70.29	3796866	YES	0	0	1	1	0	7	No	0	2
<i>A. pittii</i>	ANC 3678	3950554	YES	0	0	1	2	0	41	No	2	4
<i>A. pittii</i>	PHEA-2	3862530	YES	0	0	0	0	0	0	No	0	2
<i>A. calcoaceticus</i>	NIPH 13	3922087	YES	0	0	0	3	0	0	No	0	2
<i>A. calcoaceticus</i>	CIP 81.8	3926967	YES	0	0	0	1	0	3	Yes	1	3
<i>A. calcoaceticus</i>	ANC 3680	4071058	YES	0	0	0	1	0	0	No	1	3
<i>A. calcoaceticus-like</i>	ANC 3811	3824391	YES	0	0	0	1	0	1	No	0	2
<i>A. calcoaceticus-like</i>	NIPH 542	4174669	YES	0	0	0	0	0	1	No	1	3
<i>A. calcoaceticus-like</i>	DR1	4152543	YES	0	0	0	1	0	0	No	2	4
<i>A. calcoaceticus-like</i>	NIPH 817	4087964	YES	0	0	0	2	0	7	No	1	3
<i>A. parvus</i>	CIP 102637	2748158	YES	0	0	0	0	0	80	Yes	0	1
<i>A. parvus</i>	CIP 102129	2945942	YES	0	0	1	2	0	86	Yes	0	1
<i>A. parvus</i>	CIP 102159	2875069	YES	0	0	0	0	1	88	Yes	1	2
<i>A. parvus</i>	CIP 102082	2937770	YES	0	0	0	0	1	120	Yes	0	1
<i>A. parvus</i>	CIP 102529	2988319	YES	0	0	2	2	1	118	Yes	2	3
<i>A. parvus</i>	CIP 102143	2964850	YES	0	0	2	0	1	113	Yes	1	2
<i>A. parvus</i>	CIP 108168	2869820	YES	0	0	1	1	1	93	Yes	1	2
<i>A. parvus</i>	NIPH 1103	2968144	YES	0	0	4	1	0	87	Yes	1	2
Taxon 18	NIPH 236	3538151	YES	0	0	0	1	0	4	Yes	2	3
Taxon 18	ANC 3862	3780399	YES	0	0	0	5	0	11	Yes	1	2
Taxon 18-like	NIPH 284	3164170	YES	0	0	9	0	0	91	Yes	1	2
<i>A. tjernbergiae</i>	CIP 107465	3652434	YES	0	0	3	0	0	18	Yes	0	1
<i>A. beijerinckii</i>	CIP 110307	3556901	YES	1	1	0	0	0	4	No	1	2
<i>A. beijerinckii</i>	ANC 3835	3535053	YES	0	0	1	1	0	6	No	2	3
Taxon 22	NIPH 2100	3875794	YES	0	0	1	1	0	1	No	1	2
Taxon 21	ANC 3929	4247806	YES	0	0	2	6	0	36	No	1	4
Gen. sp. 17	NIPH 1867	3935412	YES	0	0	1	0	0	1	No	1	2
Gen. sp. 17	ANC 4105	4099634	No	0	0	2	3	0	1	No	2	3
Gen. sp. 16	CIP 70.18	4596797	YES	0	0	8	4	0	17	No	3	5
Gen. sp. 16	ANC 3880	4298248	YES	0	0	3	1	0	25	Yes	2	3
Gen. sp. 16	CIP 56.2	4319982	YES	0	0	0	3	0	8	Yes	3	4

Gen. sp. 15BJ	CIP 110321	4275319	YES	0	0	0	1	0	35	Yes	2	3
<i>A. gyllenbergi</i>	NIPH 230	4431794	No	0	0	1	1	0	25	Yes	2	4
<i>A. gyllenbergi</i>	CIP 110306	4305849	No	0	0	3	1	0	7	No	2	3
Taxon 19	NIPH 809	4249637	YES	0	0	0	2	0	3	Yes	1	3
Gen. sp. 13BJ-14TU	NIPH 2036	3884766	YES	0	0	1	0	0	42	No	2	3
Gen. sp. 13BJ-14TU	NIPH 1859	4197127	No	0	0	0	4	0	31	No	2	3
Gen. sp. 13BJ-14TU	CIP 64.2	3991108	YES	0	0	2	1	0	63	No	1	2
Taxon 20	NIPH 758	4047533	YES	0	0	1	3	0	2	Yes	1	2
Taxon 20	NIPH 2168	4025291	YES	1	3	1	2	0	1	No	2	3
Gen. sp. 14BJ	NIPH 3623	3941688	YES	0	0	0	1	0	1	No	2	3
Gen. sp. 14BJ	NIPH 1847	3916558	YES	0	0	0	2	0	1	No	3	4
<i>A. venetianus</i>	CIP 110063	3431512	YES	0	0	0	1	0	13	Yes	1	2
<i>A. junii</i>	CIP 107470	3705684	No	1	2	10	0	0	124	Yes	1	2
<i>A. junii</i>	CIP 64.5	3330618	YES	0	0	1	2	0	80	Yes	1	2
<i>A. junii</i>	NIPH 182	3306847	YES	1	1	0	1	0	0	Yes	1	2
<i>A. haemolyticus</i>	NIPH 261	3517917	YES	0	0	1	1	0	84	No	1	2
<i>A. haemolyticus</i>	CIP 64.3	3486821	YES	0	0	3	1	1	92	Yes	1	2
Gen. sp. 6	NIPH 298	3462613	YES	0	0	1	2	0	11	No	1	2
Gen. sp. 6	CIP A165	3503964	No	0	0	0	2	0	77	Yes	1	2
<i>A. baylyi</i>	ADP1	3598621	YES	0	0	0	1	0	6	Yes	0	1
<i>A. baylyi</i>	CIP 107474	3595248	YES	0	0	0	1	0	4	Yes	0	1
<i>A. soli</i>	NIPH 2899	3451111	YES	0	0	0	0	0	12	Yes	1	2
<i>A. soli</i>	CIP 110264	3350586	YES	0	0	1	2	0	3	No	2	3
<i>A. ursingii</i>	ANC 3649	3798197	YES	1	2	0	1	0	115	Yes	2	3
<i>A. ursingii</i>	CIP 107286	3486509	YES	0	0	3	1	0	88	Yes	4	4
<i>A. ursingii</i>	NIPH 706	3492350	YES	1	3	5	4	0	49	Yes	2	3
<i>A. guillouae</i>	NIPH 991	4878615	No	0	0	1	2	0	9	No	2	3
<i>A. guillouae</i>	CIP 63.46	4863018	No	0	0	0	4	0	21	No	2	3
<i>A. bereziniae</i>	NIPH 3	4925988	No	0	0	1	2	0	94	Yes	3	5
<i>A. bereziniae</i>	CIP 70.12	4947311	YES	1	2	2	3	0	54	No	3	5
<i>A. gerner</i>	CIP 107464	4520036	YES	0	0	16	2	0	56	Yes	1	3
<i>A. rufis</i>	CIP 110305	4005144	YES	0	0	0	2	0	12	No	2	4
Taxon 26	ANC 3994	3647901	YES	0	0	2	1	0	14	Yes	0	1
<i>A. bouvettii</i>	CIP 107468	3369793	YES	0	0	1	0	0	4	No	1	2
<i>A. johnsonnii</i>	CIP 64.6	3582699	YES	0	0	1	4	0	88	No	3	4
<i>A. johnsonnii</i>	ANC 3681	3536698	YES	0	0	1	2	0	8	No	2	3
<i>A. lwoffii</i>	CIP 101966	3485834	YES	0	0	8	3	0	145	No	1	2
<i>A. lwoffii</i>	CIP 70.31	3546109	YES	0	0	5	2	0	209	No	3	4
<i>A. lwoffii</i>	CIP 102136	3559292	YES	1	3	9	1	0	133	No	2	3
<i>A. lwoffii</i>	CIP 64.7	3608282	No	0	0	9	3	0	158	No	0	1
<i>A. lwoffii</i>	NIPH 715	3400693	No	0	0	6	1	0	141	Yes	0	1

<i>A. lwoffi</i>	CIP A162	3356935	YES	1	3	2	3	0	94	No	0	2
<i>A. lwoffi</i>	NIPH 512	3382001	YES	1	3	3	3	0	84	No	0	1
<i>A. lwoffi</i>	CIP 51.11	3133520	YES	1	3	2	0	0	24	No	1	2
<i>A. lwoffi</i>	NIPH 478	3276129	YES	1	3	2	1	0	38	No	0	2
Taxon 23	NIPH 713	3006240	YES	0	0	4	1	0	26	No	0	1
Taxon 23	CIP 64.10	3206079	No	0	0	4	1	0	59	No	0	1
Gen. sp. 15TU	NIPH 899	3770044	No	0	0	3	4	0	147	Yes	3	4
Gen. sp. 15TU	NIPH 2171	3480196	YES	0	0	1	2	0	109	No	3	4
<i>A. schindleri</i>	CIP 101934	3186404	YES	1	3	1	1	0	40	No	1	2
<i>A. schindleri</i>	CIP 107287	3358322	YES	1	1	6	2	0	53	Yes	0	2
<i>A. schindleri</i>	NIPH 900	3404540	YES	0	0	5	1	0	74	No	0	1
<i>A. indicus</i>	CIP 110367	3209256	YES	0	0	0	0	0	68	No	2	3
<i>A. indicus</i>	ANC 4215	3171008	YES	0	0	0	0	0	60	No	2	3
<i>A. indicus</i>	CIP 53.82	3120246	YES	0	0	2	1	0	36	No	1	2
<i>A. towneri</i>	CIP 107472	2898609	YES	0	0	3	1	0	86	No	3	4
<i>A. tandoii</i>	CIP 107469	4060687	YES	0	0	3	5	0	51	No	4	5
<i>A. radioresistens</i>	NIPH 2130	3158774	YES	0	0	1	1	0	8	No	0	1

Table S7. PFAM profiles used to identify the natural transformation machinery and *Acinetobacter* genomes missing a given component.

Protein	PFAM profile	Missing in
ComA	PF03772	<i>A. baumannii</i> AB0057 (frameshifted)
ComEA	PF12836	-
DprA	PF02481	<i>A. baumannii</i> SDF
ComP	PF00114	<i>A. baumannii</i> SDF, <i>A. baumannii</i> NIP H80, <i>A. bereziniae</i> NIPH 3, <i>A. junii</i> CIP 107470, <i>A. guillouiae</i> CIP 63.46, <i>A. guillouiae</i> NIPH 991, <i>A. gyllenbergsii</i> CIP 110306, <i>Acinetobacter</i> Taxon 23 CIP64.10, <i>A. lwoffii</i> NIPH 715, <i>Acinetobacter</i> Gen. sp. 17 ANC 4105, <i>A. lwoffii</i> CIP 64.7, <i>Acinetobacter</i> Gen. sp 6 CIP A165, <i>Acinetobacter</i> Gen. sp. 13BJ-14TU NIPH 1859.
ComC	PF05567	<i>A. baumannii</i> SDF, <i>A. lwoffii</i> NIPH 715, <i>A. nosocomialis</i> NIPH 386, <i>A. lwoffii</i> CIP 64.7, <i>A. bouvetii</i> CIP 107468
PilD	PF01478	-
PilC	PF00482	-
PilB	PF00437	-
ComQ	PF00263	-
ComL	PF04351	<i>A. lwoffii</i> CIP 64.7
ComM	PF11104	-
ComN	PF05137	-
ComO	PF04350	-

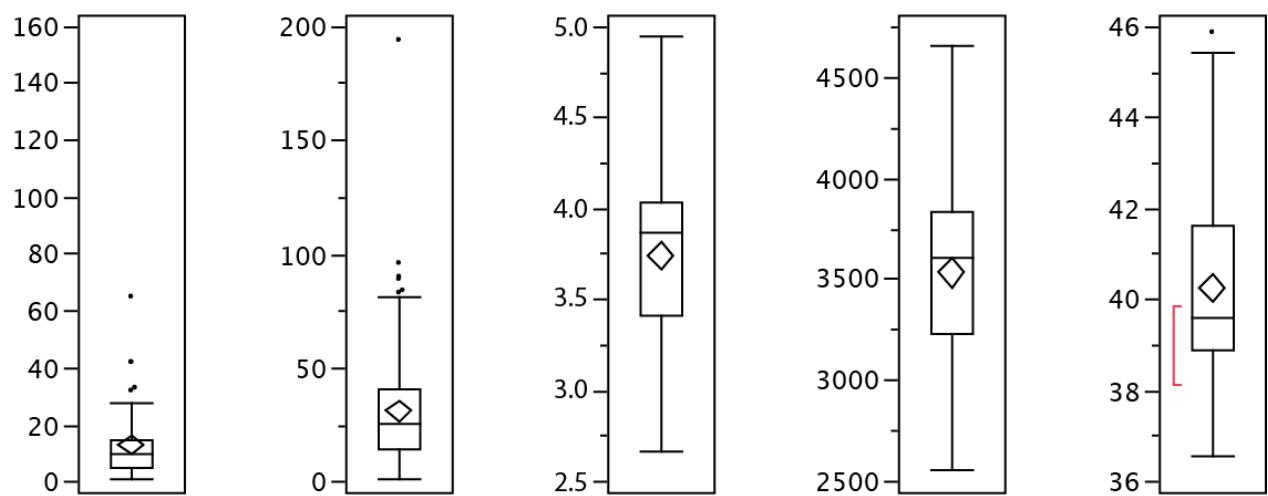


Figure S1. Statistics on the genomes. From left to right: number of scaffolds, number of contigs, genome size, number of genes, and G+C content. Diamonds indicate the average value (center) and 95% intervals of confidence (edges). Edges of boxplots indicate the extremes of the distribution, the box represents the 25% and 75% quantiles, the inner line represents the median.

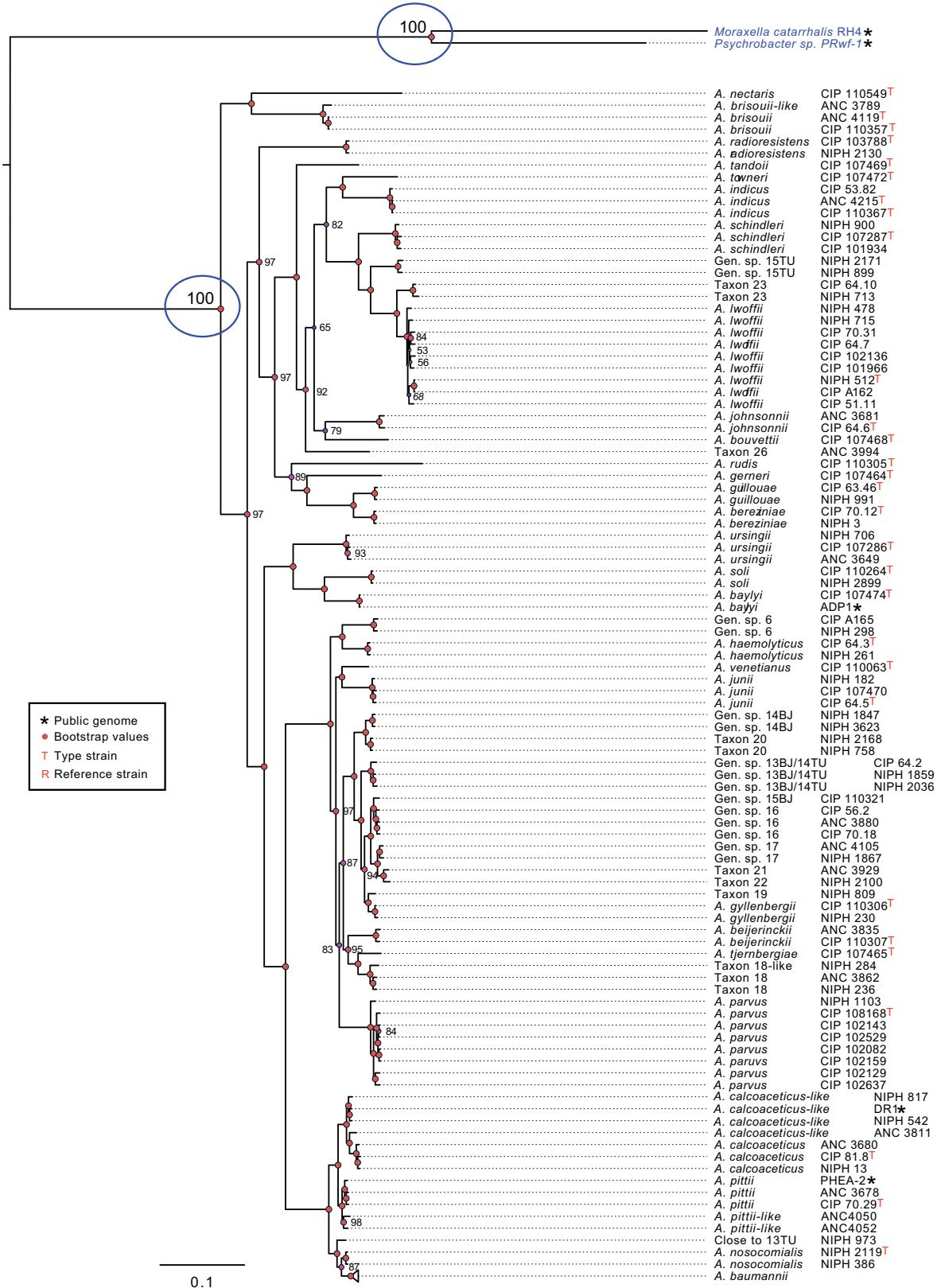


Figure S2. Rooted tree of the genus plus the two outgroups.

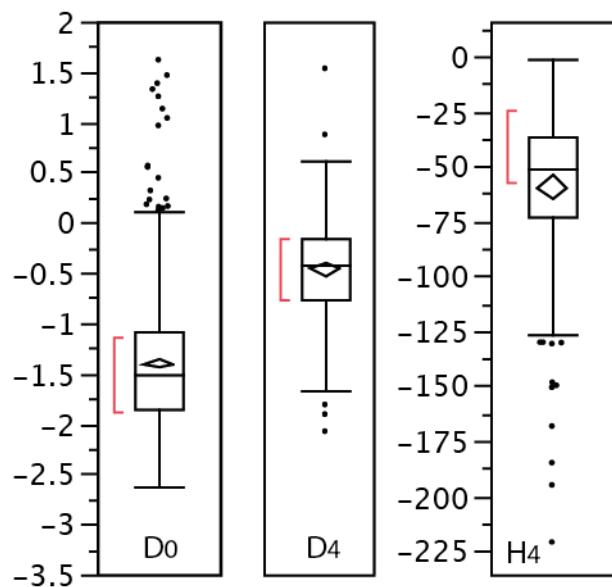


Figure S3. Distribution of the values Tajima D and Fay and Whu H at zerofold (D0) and fourfold (D4, H4) positions in the genome. Diamonds indicate the average value (center) and 95% intervals of confidence (edges). Edges of boxplots indicate the extremes of the distribution, the box represents the 25% and 75% quantiles, the inner line represents the median.

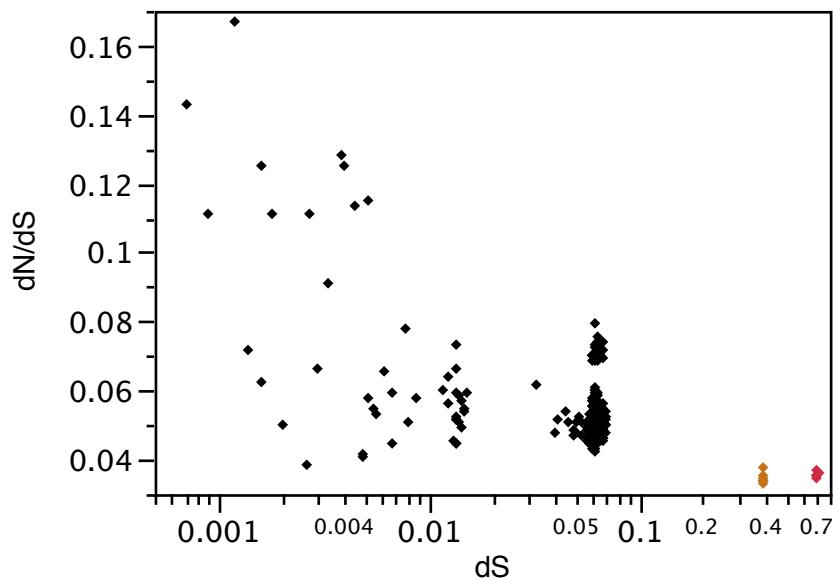


Figure S4. dN and dS values between the concatenates of all core genes in *A. baumannii*. Orange: comparisons of *A. baumannii* with *A. nosocomialis*. Red: comparisons of *A. baumannii* with *A. pittii*.